Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An apparatus for re-routing user connections between first and second nodes in a network switch, the apparatus comprising:

a loop-back path to provide connectivity between the first and second nodes, the first node having a primary connection and a secondary connection, the primary connection carrying the user connections during a normal mode, the secondary connection not using network bandwidth during the normal mode; and

a switching element coupled to the loop-back path and the first node to switch the connectivity from the primary connection to the secondary connection when there is a failure condition at the primary connection.

- 2. (original) The apparatus of claim 1 wherein the loop-back path is one of a physical connection and a logical connection.
- 3. (original) The apparatus of claim 2 wherein the failure condition is detected by a network monitor.
 - 4. (original) The apparatus of claim 3 further comprising:

a re-route handler coupled to switching element to control the switching element based on a connectivity status between the first and second nodes, the connectivity status indicating the failure condition at the primary connection between the first and second nodes.

- 5. (original) The apparatus of claim 4 wherein the switching element switches the connectivity based on the connectivity status provided by the connectivity monitor.
- 6. (original) The apparatus of claim 5 wherein the secondary connection does not carry user connections during the normal mode.

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- 7. (original) The apparatus of claim 6 wherein the network switch is an asynchronous transfer mode (ATM) switch.
- 8. (original) The apparatus of claim 7 wherein the primary and secondary connections correspond to a virtual path connection (VPC) in the ATM switch.
- 9. (original) The apparatus of claim 8 wherein the network monitor is one of an operations, administration, and maintenance (OAM) monitor and a call release procedure.
- 10. (original) The apparatus of claim 9 wherein the primary and secondary connections have equal connection capacity.
- 11. (original) A method for re-routing connections between first and second nodes in a network switch, the method comprising:

connecting the first and second nodes by a loop-back path, the first node having a primary connection and a secondary connection, the primary connection carrying user connections during a normal mode, the secondary connection not using network bandwidth during the normal mode; and

switching the connectivity from the primary connection to the secondary connection by a switching element when there is a failure condition at the primary connection.

- 12. (original) The method of claim 11 wherein the loop-back path is one of a physical connection and a logical connection.
- 13. (original) The method of claim 12 wherein the failure condition is detected by a network monitor.
 - 14. (original) The method of claim 13 further comprising:

controlling the switching element by a re-route handler based on a connectivity status between the first and second nodes provided by the network monitor, the connectivity status indicating the failure condition at the primary connection between the first and second nodes.

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- 15. (original) The method of claim 14 wherein the switching element switches the connectivity based on the connectivity status provided by the network monitor
- 16. (original) The method of claim 15 wherein the secondary connection does not carry user connections during the normal mode.
- 17. (original) The method of claim 16 wherein the network switch is an asynchronous transfer mode (ATM) switch.
- 18. (original) The method of claim 17 wherein the primary and secondary connections correspond to a virtual path connection (VPC) in the ATM switch.
- 19. (original) The method of claim 18 wherein the network monitor is one of an operations, administration, and maintenance (OAM) monitor and a call release procedure.
- 20. (original) The method of claim 19 wherein the primary and secondary connections have equal connection capacity.
- 21. (currently amended) A computer program product comprising:
 a computer usable medium having computer program code embodied therein for rerouting connections between first and second nodes in a network switch, the computer program
 product having:

computer readable program code for connecting the first and second nodes by a loop-back path, the first node having a primary connection and a secondary connection, the primary connection carrying user connections during a normal mode, the secondary connection not using network bandwidth during the normal mode; and

computer readable program code for switching the connectivity from the primary connection to the secondary connection by a switching element when there is a failure condition at the primary connection.

- 22. (original) The computer program product of claim 21 wherein the loop-back path is one of a physical connection and a logical connection.
- 23. (driginal) The computer program product of claim 22 wherein the failure condition is detected by a network monitor.
- 24. (original) The computer program product of claim 23 further comprising: computer readable program code for controlling the switching element by a re-route handler based on a connectivity status between the first and second nodes provided by the network monitor, the connectivity status indicating the failure condition at the primary connection between the first and second nodes.
- 25. (original) The computer program product of claim 24 wherein the switching element switches the connectivity based on the connectivity status provided by the network monitor.
- 26. (original) The computer program product of claim 25 wherein the secondary connection does not carry user connections during the normal mode.
- 27. (original) The computer program product of claim 26 wherein the network switch is an asynchronous transfer mode (ATM) switch.
- 28. (original) The computer program product of claim 27 wherein the primary and secondary connections correspond to a virtual path connection (VPC) in the ATM switch.
- 29. (original) The computer program product of claim 28 wherein the network monitor is one of an operations, administration, and maintenance (OAM) monitor and a call release procedure.
- 30. (original) The computer program product of claim 29 wherein the primary and secondary connections have equal connection capacity.

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31. (currently amended) A system comprising:

first and second nodes to carry user connections in a network switch; and a circuit coupled to the first and second nodes to re-route the user connections between first and second nodes, the circuit comprising:

a loop-back path to provide connectivity between the first and second nodes, the first node having a primary connection and a secondary connection, the primary connection carrying the user connections during a normal mode, the secondary connection not using network bandwidth during the normal mode; and

a switching element coupled to the loop-back path and the first node to switch the connectivity from the primary connection to the secondary connection when there is a failure condition at the primary connection.

- 32. (original) The system of claim 31 wherein the loop-back path is one of a physical connection and a logical connection.
- 33. (original) The system of claim 32 wherein the failure condition is detected by a network monitor.
 - 34. (original) The system of claim 33 wherein the circuit further comprises: a re-route handler coupled to the switching element to control the switching element based on a connectivity status between the first and second nodes, the connectivity status indicating the failure condition at the primary connection between the first and second nodes.
 - 35. (original) The system of claim 34 wherein the switching element switches the connectivity based on the connectivity status provided by the network monitor.
 - 36. (original) The system of claim 35 wherein the secondary connection does not carry user connections during the normal mode.
- 37. (original) The system of claim 36 wherein the network switch is an asynchronous transfer mode (ATM) switch.



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- 38. (original) The system of claim 37 wherein the primary and secondary connections correspond to a virtual path connection (VPC) in the ATM switch.
- 39. (original) The system of claim 38 wherein the network monitor is one of an operations, administration, and maintenance (OAM) monitor and a call release procedure.
- 40. (original) The system of claim 39 wherein the primary and secondary commections have equal connection capacity.